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# NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

06/15/2009

EXAMINER

MOORE, KARLA A

ART UNIT PAPER NUMBER

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314

1792 DATE MAILED: 06/15/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/706,914      | 11/14/2003  | Tsutomu Okabe        | 245161US3 CIP       | 7655             |

TITLE OF INVENTION: WAFER PROCESSING APPARATUS HAVING DUST PROOF FUNCTION

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 09/15/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 22850 06/15/2009 Certificate of Mailing or Transmission OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 1940 DUKE STREET ALEXANDRIA, VA 22314 (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/706.914 11/14/2003 245161US3 CIP 7655 Tsutomu Okabe TITLE OF INVENTION: WAFER PROCESSING APPARATUS HAVING DUST PROOF FUNCTION APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 09/15/2009 **EXAMINER** ART UNIT CLASS-SUBCLASS MOORE, KARLA A 1792 414-217100 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_\_ (enclose an extra copy of this fo Advance Order - # of Copies \_ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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| APPLICATION NO.                                  | FILING DATE              | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |
|--|--------------------------|----------------------|-------------------------|------------------|
| 10/706,914                                       | 11/14/2003 Tsutomu Okabe |                      | 245161US3 CIP           | 7655             |
| 22850 7:   | 22850 7590 06/15/2009    |                      | EXAMINER                |                  |
| OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. |                          |                      | MOORE, KARLA A          |                  |
|  | 1940 DUKE STREET         |                      |                         | PAPER NUMBER     |
| ALEXANDRIA, V                                    | VA 22314                 |                      | 1792                    |                  |
|  |                          |                      | DATE MAILED: 06/15/2009 |                  |

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

|   | Application No.  | Applicant(s)  |        |
|---|--|---|--------|
|   | Application No.  | Applicant(s)  |        |
| Nation of Allowaldite   | 10/706,914   | OKABE ET AL.  |        |
| Notice of Allowability  | Examiner   | Art Unit  |        |
|   | KARLA MOORE  | 1792  |        |
| The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is | in this application. If not included nunication will be mailed in due cours |        |
| 1. X This communication is responsive to <u>amendment filed 9 M</u>   | arch 2009.   |   |        |
| 2. ☑ The allowed claim(s) is/are <u>1-6 and 9-12</u> .  |  |   |        |
| <ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> </ul>                           | be been received. been received in Applicat                              | ion No  |        |
| 3. Copies of the certified copies of the priority do  | cuments have been receiv   | ed in this national stage application fr                                    | om the |
| International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  |  |   |        |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be subminformal patent APPLICATION (PTO-152) which give                          | IENT of this application. itted. Note the attached EX                    | (AMINER'S AMENDMENT or NOTIC  |        |
| 5. CORRECTED DRAWINGS ( as "replacement sheets") mus  | st he submitted  |   |        |
| (a) ☐ including changes required by the Notice of Draftspers  |  | ew ( PTO-948) attached  |        |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date  | -  | ,   |        |
| (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1   | s Amendment / Comment  | the drawings in the front (not the back                                     | ) of   |
| each sheet. Replacement sheet(s) should be labeled as such in to 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT  | sit of BIOLOGICAL MA   | TERIAL must be submitted. Note t  | he     |
|   |  |   |        |
| Attachment(s)   | <b></b>  | information Default Assults and   |        |
| 1. Notice of References Cited (PTO-892)   |  | nformal Patent Application  |        |
| <ol> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statements (PTO/SB/08),</li> </ol>   | Paper No   | Summary (PTO-413),<br>./Mail Date<br>s Amendment/Comment                    |        |
| Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material  |  | s Statement of Reasons for Allowand   | е      |
| o. Biological Material  | 9. 🔲 Other   | <u>_</u>  |        |
|   |  |   |        |

Art Unit: 1792

#### **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lee Stepina on 5 June 2009.

The application has been amended as follows:

Claim 1:

at line 6: insert the word "and" between the words "opening" and "in"

at line 16: insert the words "chamber side" between the words "a" and "surface"

at line 25: replace the words "a chamber side surface" with the words "the

chamber side surface"

Claim 4:

at line 5: insert the word "and" between the words "opening" and "in"

at line 17: insert the words "chamber side" between the words "a" and "surface"

at line 26: replace the words "a chamber side surface" with the words "the

chamber side surface"

Claim 5:

at line 2: replace the word "tab" with the word "flange"

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## Allowable Subject Matter

- 2. Claims 1-6 and 9-12 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or fairly suggest a wafer processing apparatus including a chamber wall therein and configured to transfer a wafer between a clean box having a housing with an opening configured to be closed by a lid to house the wafer in the housing and the chamber, wherein the housing has a flange extending from the opening of the clean box toward a side opposite to the opening and in a surface-plane direction of the opening of the clean box around an entire perimeter of the opening of the clean box, said apparatus comprising: a first opening portion formed on the chamber wall, for communicating with an outside of the chamber, said first opening portion facing the opening of the clean box which allows loading or unloading of the wafer between the clean box and the chamber, wherein when the wafer transferring operation is performed, the clean box is fixed to overlap the flange of the clean box over an outside surface of the wall on which the first opening portion is formed with a first clearance formed around the entire perimeter of said first opening portion, the first clearance being defined by a predetermined constant distance along an entire perimeter of the opening of the clean box between a chamber side surface of the flange and the outside surface of the chamber wall on which the first opening portion is formed, wherein the clean box is settable in a manner where an outermost peripheral edge of the clean box is positioned closer to a center of said first opening in portion in a direction parallel to the

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plane of the chamber wall so that a part of an airflow from the inside of the chamber at the peripheral edge of said first opening portion in a direction normal to said first opening portion hits the chamber side surface of the flange to direct an airflow in the direction. Further, no other properly combinable prior art, along with the requisite motivation(s), was located that fairly suggested the features of the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KARLA MOORE whose telephone number is (571)272-1440. The examiner can normally be reached on Monday-Friday, 9:00 am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571.272.1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Karla Moore/ Primary Examiner, Art Unit 1792